M4 Milestone Report

1. We have fully completed all the core features and functionality of our Recommender website. We have fully functional code regarding recommending music, anime, and podcasts based upon user inputted text as well as a fully functioning website run by the Django framework. However, this website is not as of now being hosted on a server and can only be hosted locally.

We also did anime recommendations using the same algorithm as used for podcast dataset in the previous milestone. The labels we classified now were the five genres of anime based on its synopsis. We used LSTM for multiclass classification and got the accuracy of around 79% using Adam optimizer, batch-size of 64 and categorical cross entropy as the loss function.

Lastly, we also added some functionality that assists with cleaning the sentence input from the user. This includes removing characters that add no value including punctuation, numbers and other special characters (ex. $%(*!@ etc.). We also removed certain words for the same reasons listed previously.

2. The only feature change we have implemented is that we have removed the option of selecting a recommendation of movies due to time constraints and we feel that three is enough for our website.

3. As we are nearing the end of the project, we don't see any major challenges or bottlenecks that hinder our final product. The only small issue we currently face is that the website is currently unable to be hosted on a server. However, we feel that this is not too important since this is not required for our goals as well as this could be done later by using a web-hosting service such as Google Cloud or Heroku.

4. Max: Helped with integrating our code into the Django framework for our website. Wrote various parts of the Final Report and provided a voice for explanation for some parts of our project as part of our showcasing video.

Sijan: Used anime dataset created by Thomas Konstantin and wrote an algorithm to generate anime recommendations for the user based on the user's input. The dataset can be found here:

https://www.kaggle.com/thomaskonstantin/top-10000-anime-movies-ovas-and-tvshows

Wrote parts of the final report and assisted with making the final video.

Kaleb: Assisted with the backend implementation for the website. Wrote parts of the final report as well as assisting with the final video.

Ryan: Wrote the code for the web app and restructured the code of the different models so that they could be used in the app. Contributed to the final report